

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
30 March 2006 (30.03.2006)

PCT

(10) International Publication Number  
WO 2006/033665 A1

(51) International Patent Classification<sup>7</sup>: C07K 14/16, A61P 35/00, C12N 15/62, A61P 31/00

(21) International Application Number:  
PCT/US2005/008519

(22) International Filing Date: 16 March 2005 (16.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/553,733 16 March 2004 (16.03.2004) US

(71) Applicant (for all designated States except US): INIST INC. [US/US]; New Jersey Institute of Technology EDC III, 211 Warren St., Suite 516, Newark, NJ 07103 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): COHEN, David I. [US/US]; 64 Willow Avenue, Pelham, NY 10803 (US).

(74) Agents: CULLMAN, Louis, C. et al.; Preston Gates & Ellis LLP, 1900 Main Street, Suite 600, Irvine, CA 92614-7319 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

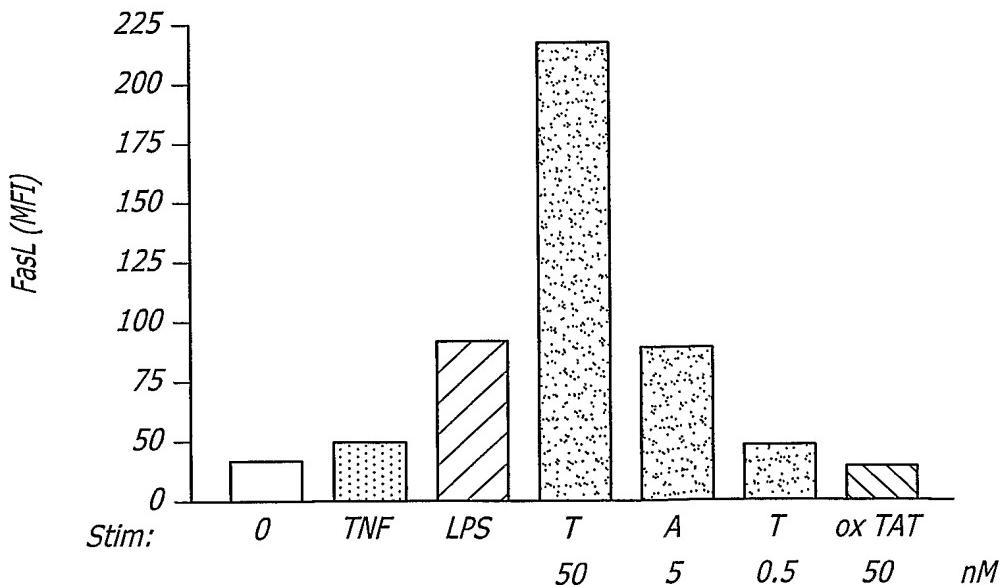
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TAT-BASED VACCINE COMPOSITIONS AND METHODS OF MAKING AND USING SAME



(57) Abstract: A Tat-based vaccine composition comprising at least one antigen coupled to at least one immunostimulatory lentivirus trans-activator of transcription (Tat) molecule wherein the antigen is a cancer antigen an infectious disease antigen or a fragment thereof and methods to treat disease by administering the Tat-based vaccine composition. An additional Tat-based vaccine composition comprising immunostimulatory lentivirus Tat is provided.

WO 2006/033665 A1